## Safety data sheet

according to 1907/2006/EC, Article 31 Printing date 27.03.2015 Revision: 27.03.2015 SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier · Trade name: kLine Thermo Lack · Article number: 6420409 · 1.2 Relevant identified uses of the substance or mixture and uses advised against · Application of the substance / the mixture: painting · 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: DKS Technik GmbH Gnadenwald 90a A-6069 Gnadenwald Tel.: +43 (0) 5223 48488 Fax.: +43 (0) 522348488-50 www.dks.at · Further information obtainable from: E-Mail: office@dks.at Tel.: +43 (0)522348488 • 1.4 Emergency telephone number: Tel.: +43(0)1 4064343 **SECTION 2: Hazards identification** · 2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008 GHS02 flame H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated. Flam. Aerosol 1 GHS07 Eye Irrit. 2 H319 Causes serious eye irritation. H304 May be fatal if swallowed and enters airways. Asp. Tox. 1 Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects. · Classification according to Directive 67/548/EEC or Directive 1999/45/EC F+; Extremely flammable R12: Extremely flammable. R18-52/53-66-67: In use, may form flammable/explosive vapour-air mixture. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness. · Information concerning particular hazards for human and environment: The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent. Warning! Pressurised container.

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• Classification sy The classification data.	ystem: on is according to the latest editions of the EU-lists, and extended by company and literature
· 2.2 Label eleme	nts
· Labelling accor	ding to Regulation (EC) No 1272/2008
	lassified and labelled according to the CLP regulation.
· Hazard pictogra	ums
1	
	NO7
GHS02 GHS	307
· Signal word Da	nger
· Hazard-determi	ning components of labelling:
Naphtha (petrol	eum), hydrodesulfurized heavy benzene $< 0,1 \%$
• Hazard stateme	nts
H222-H229 Ext	remely flammable aerosol. Pressurised container: May burst if heated.
H319 Cat	uses serious eye irritation.
H412 Ha	rmful to aquatic life with long lasting effects.
· Precautionary s	tatements
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Pressurized container: Do not pierce or burn, even after use.
P273	Avoid release to the environment.
P280	Wear protective gloves/eye protection.
P305+P351+P3	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
· Additional info	
	te ventilation, explosive atmosphere/gas mix may be created.
	Idehyde, 2-butanone oxime. May produce an allergic reaction.
$\cdot$ 2.3 Other hazar	
-	and vPvB assessment
• <b>PBT:</b> Not applie	
• <b>vPvB:</b> Not appli	
SECTION 3.	Composition/information on ingredients
SECTION J.	Composition information on ingreatents
	naracterisation: Mixtures

· Dangerous components:

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	(Cor	ntd. of page
CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49-xxxx	acetone Xi R36; F R11 R66-67 Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	10-25
CAS: 106-97-8 EINECS: 203-448-7	butane F + R12 R18 Flam. Gas 1, H220; Press. Gas C, H280	10-25
CAS: 115-10-6 EINECS: 204-065-8 Reg.nr.: 01-2119472128-37-xxxx	<i>dimethyl ether</i> <i>F</i> + <i>R</i> 12	10-25
CAS: 74-98-6 EINECS: 200-827-9	<i>propane</i> <i>F</i> + <i>R</i> 12 <i>R</i> 18 <i>F</i> + <i>R</i> 12 <i>F</i> + <i>R</i> 12 <i></i>	10-25
CAS: 64742-82-1 EINECS: 265-185-4	Naphtha (petroleum), hydrodesulfurized heavy benzene < 0,1 %	10-25
CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29-xxxx	n-butyl acetate R10-66-67	5-109
CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29-xxxx	2-methoxy-1-methylethyl acetate R10 Image: R10	2.5-5
CAS: 107-98-2 EINECS: 203-539-1 Reg.nr.: 01-2119457435-35-xxxx	1-methoxy-2-propanol R10-67	2.5-54
CAS: 64742-95-6 EINECS: 265-199-0	Solvent naphtha (petroleum), light arom. benzene < 0,1 % Xn R65; Xi R37; № N R51/53 R10-66-67 ◆ Flam. Liq. 3, H226; ◆ Asp. Tox. 1, H304; ◆ Aquatic Chronic 2, H411; ◆ STOT SE 3, H335-H336	1-2.59
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32-xxxx	xylene Xn R20/21; Xi R38 R10 Flam. Liq. 3, H226; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	1-2.59
CAS: 96-29-7 EINECS: 202-496-6	2-butanone oxime Xn R21-40; Xi R41; Xi R43 Carc. Cat. 3 ♦ Carc. 2, H351; ♦ Eye Dam. 1, H318; ♦ Acute Tox. 4, H312; Skin Sens. 1, H317	<1%

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#### **SECTION 4: First aid measures**

- · 4.1 Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

#### <u>SECTION 5: Firefighting measures</u>

- · 5.1 Extinguishing media -
- · Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Cool container whit water
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture Can form explosive gas-air mixtures.
- 5.3 Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

#### **SECTION 6: Accidental release measures**

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- · 6.2 Environmental precautions:
- Do not allow product to reach sewage system or any water course.
- Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

- · 6.3 Methods and material for containment and cleaning up:
- *Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents*
- **6.4 Reference to other sections** See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

#### **SECTION 7: Handling and storage**

#### · 7.1 Precautions for safe handling

Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

- Take note of emission threshold.
- Use only in well ventilated areas.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

- $\cdot$  Information about fire and explosion protection:
- Do not spray onto a naked flame or any incandescent material.
- Keep ignition sources away Do not smoke.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.

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· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

 $\cdot$  Requirements to be met by storerooms and receptacles:

Store in a cool location.

Observe official regulations on storing packagings with pressurised containers.

• Information about storage in one common storage facility: Not required.

• Further information about storage conditions: Protect from heat and direct sunlight.

• 7.3 Specific end use(s) No further relevant information available.

**SECTION 8: Exposure controls/personal protection** 

• Additional information about design of technical facilities: No further data; see item 7.

· 8.1 Control parameters • Ingredients with limit values that require monitoring at the workplace: 67-64-1 acetone WEL Short-term value: 3620 mg/m<sup>3</sup>, 1500 ppm Long-term value: 1210 mg/m<sup>3</sup>, 500 ppm 106-97-8 butane WEL Short-term value: 1810 mg/m<sup>3</sup>, 750 ppm Long-term value: 1450 mg/m<sup>3</sup>, 600 ppm Carc (if more than 0.1% of buta-1.3-diene) 115-10-6 dimethyl ether WEL Short-term value: 958 mg/m<sup>3</sup>, 500 ppm Long-term value: 766 mg/m<sup>3</sup>, 400 ppm 123-86-4 n-butyl acetate WEL Short-term value: 966 mg/m<sup>3</sup>, 200 ppm Long-term value: 724 mg/m<sup>3</sup>, 150 ppm 108-65-6 2-methoxy-1-methylethyl acetate WEL Short-term value: 548 mg/m<sup>3</sup>, 100 ppm Long-term value: 274 mg/m<sup>3</sup>, 50 ppm Sk 107-98-2 1-methoxy-2-propanol WEL Short-term value: 560 mg/m<sup>3</sup>, 150 ppm Long-term value: 375 mg/m<sup>3</sup>, 100 ppm Sk 1330-20-7 xylene WEL Short-term value: 441 mg/m<sup>3</sup>, 100 ppm Long-term value: 220 mg/m<sup>3</sup>, 50 ppm Sk; BMGV · Ingredients with biological limit values: 1330-20-7 xylene BMGV 650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid · Additional information: The lists valid during the making were used as basis.

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- · 8.2 Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures: Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols.
- · Respiratory protection:

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Half mask with combination filter, class A1P2 minimum, or breathing mask with outer air supply.

• Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- · Material of gloves Nitrile rubber, NBR
- · Penetration time of glove material
- Gloves must be changed after every contamination.

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

- $\cdot$  For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:
- butyl rubber, 0,7mm





Tightly sealed goggles

9.1 Information on basic physical a General Information Appearance:	nd chemical properties	
Form:	Aerosol	
Colour:	According to product specification	
Odour:	Characteristic	
Odour threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. Not applicable, as aerosol.	
Flash point:	< 0 °C Without propellant gas.	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:	235 °C	

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• Decomposition temperature:	Not determined.	
· Self-igniting:	Product is not selfigniting.	
· Danger of explosion:	In use, may form flammable/explosive vapour-air mixture.	
· Explosion limits:		
Lower:	1.5 Vol %	
Upper:	18.6 Vol %	
· Vapour pressure at 20 °C:	3600 hPa	
· Density:	Not determined.	
· Relative density	Not determined.	
· Vapour density	Not determined.	
· Evaporation rate	Not applicable.	
· Solubility in / Miscibility with		
water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/w	ater): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	90.7 %	
	With propellant gas. Content given by weight.	
Solids content:	9.3 %	
• 9.2 Other information	No further relevant information available.	

#### SECTION 10: Stability and reactivity

· 10.1 Reactivity

· 10.2 Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

- · 10.3 Possibility of hazardous reactions Reacts with acids, alkalis and oxidising agents.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: Possible in traces.

#### **SECTION 11: Toxicological information**

· 11.1 Information on toxicological effects

· Acute toxicity:

· LD/LC50 v	alues relev	vant for classification:
64742-82-1	l Naphtha	(petroleum), hydrodesulfurized heavy benzene < 0,1 %
Inhalative	LC50/4 h	13 mg/l (rat)
		Quelle: Oekopro.de
64742-95-0	6 Solvent n	aphtha (petroleum), light arom. benzene < 0,1 %
Oral	LD50	>6800 mg/kg (rat)
Dermal	LD50	>3400 mg/kg (rab)
Inhalative	LC50/4 h	>10.2 mg/l (rat)
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· Primary irritant effect:

• on the skin: Irritant to skin and mucous membranes.

• on the eye: No irritating effect.

• Sensitisation: No sensitising effects known.

#### **SECTION 12: Ecological information**

· 12.1 Toxicity

12.1 IOAA	, try	
• Aquatic to	xicity:	
64742-82-1 Naphtha (petroleum), hydrodesulfurized heavy benzene < 0,1 %		
LC50/48h	68.2 mg/l (Pimephales promelas)	
	Quelle: Oekopro.de	
64742-95-	6 Solvent naphtha (petroleum), light arom. benzene < 0,1 %	
EC50	19 mg/l (Pseudokirchneriella subcapitata) (OECD-PrüfRL 201 96h)	
	6.14 mg/l (daphnia) (48h)	
· 12.2 Persi	stence and degradability No further relevant information available.	
· 12.3 Bioad	ccumulative potential No further relevant information available.	
	i <b>lity in soil</b> No further relevant information available.	
· Ecotoxica		
	Harmful to fish	
	l ecological information:	
· General n		
	ard class 1 (German Regulation) (Self-assessment): slightly hazardous for water	
Harmful to	o aquatic organisms	
	lts of PBT and vPvB assessment	
• <b>PBT:</b> Not		
• vPvB: Ikke	e relevant.	

· 12.6 Other adverse effects No further relevant information available.

#### **SECTION 13: Disposal considerations**

#### · 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Empty aerosols can be disposed with the ordinary waste.

#### · European waste catalogue

15 01 10\* packaging containing residues of or contaminated by dangerous substances

· Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport info	ormation	
· 14.1 UN-Number		
· ADR, IMDG, IATA	UN1950	
· 14.2 UN proper shipping name		
·ADR	1950 AEROSOLS	
· IMDG	AEROSOLS	
·IATA	AEROSOLS, flammable	
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· 14.3 Transport hazard class(es)		
· ADR		
· Class	2 5F Gases.	
· Label	2.1	
· IMDG, IATA		
· Class	2.1	
· Label	2.1	
· 14.4 Packing group		
· ADR, IMDG, IATA	Void not classified	
	noi classifica	
<ul> <li>14.5 Environmental hazards:</li> <li>Marine pollutant:</li> </ul>	No	
$\cdot$ 14.6 Special precautions for user	Warning: Gases.	
· Danger code (Kemler):	-	
· EMS Number:	not classified F-D,S-U	
• 14.7 Transport in bulk according to Anne MARPOL73/78 and the IBC Code	Not applicable.	
· Transport/Additional information:	11	
· ADR		
· Limited quantities (LQ)	1L	
• Excepted quantities (EQ)	Code: E0	
	Not permitted as Excepted Quantity	
• Transport category	2	
• Tunnel restriction code	D	
· Limited quantities (LQ)	1L Code: E0	
$\cdot$ Excepted quantities (EQ)	<i>Code: E0</i> <i>Not permitted as Excepted Quantity</i>	
· UN "Model Regulation":	UN1950, AEROSOLS, 2.1	

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#### **SECTION 15: Regulatory information**

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

· National regulations:

• Technical instructions (air):

Class	Share in %
Ι	<1
NK	50-100

• Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · Relevant phrases

- H220 Extremely flammable gas.
- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H351 Suspected of causing cancer.
- H411 Toxic to aquatic life with long lasting effects.
- R10 Flammable.
- R11 Highly flammable.
- *R12 Extremely flammable.*
- *R18* In use, may form flammable/explosive vapour-air mixture.
- R20/21 Harmful by inhalation and in contact with skin.
- R21 Harmful in contact with skin.
- R36 Irritating to eyes.
- *R37 Irritating to respiratory system.*
- R38 Irritating to skin.
- *R40 Limited evidence of a carcinogenic effect.*
- R41 Risk of serious damage to eyes.
- *R43 May cause sensitisation by skin contact.*

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- *R65 Harmful: may cause lung damage if swallowed.*
- *R66 Repeated exposure may cause skin dryness or cracking.*
- *R67* Vapours may cause drowsiness and dizziness.

· Department issuing MSDS: Product safety department

· Contact: Hr. Hamberger

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Abbreviations and acronyms:	
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement d	concerning the International
Carriage of Dangerous Goods by Road)	concerning me international
IMDG: International Maritime Code for Dangerous Goods	
IATA: International Air Transport Association	
GHS: Globally Harmonised System of Classification and Labelling of Chemicals	
EINECS: European Inventory of Existing Commercial Chemical Substances	
ELINCS: European List of Notified Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
Flam. Gas 1: Flammable gases, Hazard Category 1	
Flam. Aerosol 1: Flammable aerosols, Hazard Category 1	
Press. Gas C: Gases under pressure: Compressed gas	
Flam. Liq. 2: Flammable liquids, Hazard Category 2	
Flam. Lig. 3: Flammable liquids, Hazard Category 3	
Acute Tox. 4: Acute toxicity, Hazard Category 4	
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2	
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1	
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2	
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1	
Carc. 2: Carcinogenicity, Hazard Category 2	
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3	
Asp. Tox. 1: Aspiration hazard, Hazard Category 1	
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2	
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3	
* Data compared to the previous version altered.	